Listing of the Claims

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This listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Currently amended) An isolated nucleic acid molecule encoding a differentially expressed prostate cancer antigen 3 (PCA3) mRNA containing an additional sequence between exon 3 and exon 4a, thereby giving rise to encoding a PCA3 mRNA, having a sequence which is longer than that set forth in SEQ ID NO:2, wherein said longer isolated nucleic acid is indicative of a non-malignant state of the prostate.
- 2. (Currently amended) The isolated nucleic acid molecule of claim 1, wherein said additional sequence interrupts the <u>a predicted</u> open reading frame of encoding a PCA3 protein, thereby yielding a truncated PCA3 protein.
- 3. (Currently amended) The isolated nucleic acid molecule according to claim 1, wherein said additional sequence between exon 3 and exon 4a comprises a polynucleotide sequence at least 90% identical to a sequence selected from the group consisting of:
- (a) a nucleotide sequence as set forth from nucleotides 27 to 254 of SEQ ID NO:1;
- (b) a nucleotide sequence fully complementary to the nucleotide sequence in (a); and
- (c) a nucleotide sequence which hybridizes under high stringency conditions to any of the nucleotide sequences in (a) or (b), said high stringency conditions comprising a hybridization at 65°C in 5X SSC, 5X Denhardt's solution, 1% SDS, and 100 µg/ml denatured salmon sperm DNA.
- 4. (Original) The isolated nucleic acid molecule according to claim 1, wherein the molecule comprises the nucleotide sequence encoding PCA3 as set forth in SEQ ID NO:1.

- 5. (Currently amended) The isolated nucleic acid molecule according to claim 1, wherein the molecule contains a predicted open reading frame encoding the encodes amino acid sequence set forth in SEQ ID NO:3.
- 6. (Previously presented) An isolated nucleic acid molecule consisting of 10 to 50 nucleotides which specifically hybridizes to a differentially expressed PCA3 mRNA comprising an additional PCA3 sequence between exon 3 and exon 4a, thereby giving rise to a PCA3 mRNA having a sequence which is longer than that set forth in SEQ ID NO:2, wherein said nucleic acid molecule is or is complementary to a nucleotide sequence consisting of at least 10 consecutive nucleotides from said additional PCA3 sequence, as set forth from nucleotides 27 to 254 of SEQ ID NO:1.

Claims 7-8 (Canceled)

- 9. (Original) A kit for detecting the presence of differentially expressed PCA3 mRNA in a sample comprising at least one container means having disposed therein the nucleic acid molecule according to claim 6.
- 10. (Original) A recombinant nucleic acid molecule comprising, 5' to 3', a promoter effective to initiate transcription in a host cell and the nucleic acid molecule according to claim 1.
- 11. (Original) A cell that contains the recombinant nucleic acid molecule according to claim 10.
- 12. (Original) A non-human organism that contains the recombinant nucleic acid molecule according to claim 10.

Claims 13-23 (Canceled)

- 24. (Previously presented) The isolated nucleic acid of claim 1, wherein said longer PCA3 mRNA comprises the nucleic acid sequence set forth from nucleotides 27 to 254 of SEQ ID NO:1.
- 25. (Currently amended) The isolated nucleic acid molecule of claim 24, wherein said additional sequence interrupts the a predicted open reading frame of encoding a PCA3 protein, thereby yielding a truncated PCA3 protein.
- 26. (Currently amended) The isolated nucleic acid molecule of claim 6, wherein said molecule sequence is as consists of the sequence set forth in SEQ ID NO:4.
- 27. (Currently amended) An isolated nucleic acid molecule having the consisting of a nucleic acid sequence selected from the group consisting of:
- (a) the nucleic acid sequence as set forth from nucleotides 27 to 254 of SEQ ID NO:1;
- (b) a nucleotide sequence fully complementary to the nucleotide sequence in (a); and
- (c) a nucleotide sequence which hybridizes under high stringency conditions to any of the nucleotide sequences in (a) or (b), said high stringency conditions comprising a hybridization at 65°C in 5X SSC, 5X Denhardt's solution, 1% SDS, and 100 µg/ml denatured salmon sperm DNA.
- 28. (Previously presented) A recombinant nucleic acid molecule comprising, 5' to 3', a promoter effective to initiate transcription in a host cell of the nucleic acid molecule according to claim 27.
- 29. (Previously presented) A cell that contains the recombinant nucleic acid molecule according to claim 28.
- 30. (Previously presented) A non-human organism that contains the recombinant nucleic acid molecule according to claim 28.

- 31. (Currently amended) An isolated nucleic acid molecule having the nucleic acid sequence selected from the group consisting of:
- a) the nucleic acid sequence as set forth from nucleotides 27 to 254 of SEQ ID NO:1; and
- b) a nucleotide sequence fully complementary to the nucleotide sequence in a), wherein said nucleic acid molecule is indicative of a non-malignant state of the prostate.
- 32. (Previously presented) A recombinant nucleic acid molecule comprising, 5' to 3', a promoter effective to initiate transcription in a host cell and the nucleic acid molecule according to claim 31.
- 33. (Previously presented) A cell that contains the recombinant nucleic acid molecule according to claim 32.
- 34. (Previously presented) A non-human organism that contains the recombinant nucleic acid molecule according to claim 32.